

**California Department of Food and Agriculture**  
**Light Brown Apple Moth**  
**Approved Treatments for Nurseries and Host Crops**

Listed below are the products for control or prevention of Light Brown Apple Moth (LBAM) at nurseries and/or crop production areas. Establishments where a LBAM infestation has been detected must follow procedures outlines in the LBAM Regulatory Procedures Manual.

**Label rates lower than approved quarantine rates may not be used for quarantine purposes.**

**It is incumbent upon the user to follow all label restrictions**

| Target Life Stage: Eggs*/Larvae  |                   |  |                                     |   |
|--|-------------------|--|-------------------------------------|---|
| Active Ingredient  | Approved Products | EPA Reg #  | Sites                               | Approved Quarantine Rates and Remarks   |
| <b>Lambda-cyhalothrin *</b>  | Scimitar GC       | 100-1088-AA  | Ornamentals                         | Apply at maximum label rate of 148 ml/100 gallons water (38 ppm ai by volume) with approved superior-type spray oil at a rate of 1% or more by volume. Ensure thorough coverage of plant material. <b>SEE LABEL</b>         |
| <b>Methoxyfenozide *</b>   | Intrepid 2F       | 62719-442, See Supplemental label for ornamentals. | Crops, Ornamentals, Christmas trees | Apply at label rate of 500 ml/100 gallons water (300 ppm ai by volume) with approved superior-type spray oil at a rate of 1% or more by volume. Ensure thorough coverage of plant material. <b>SEE LABEL</b>                |
| <b>Chlorantraniliprole *</b>   | Acelepryn         | 100-1489-AA  | Landscape, Ornamental Plants        | Apply at label rate of 2.0 fl. oz. ml/100 gallons water with approved superior-type spray oil at a rate of 1% or more by volume. Ensure thorough coverage of plant material. <b>SEE LABEL</b>                               |
| <b>Spinosad *</b><br>(including spinosyn A & D)  | Conserve SC       | 62719-291-AA (SLN)                                 | Ornamentals                         | Apply at maximum label rate of 650 ml/100 gallons water (22 fl. oz/100 gallons water) with approved superior-type spray oil at a rate of 1% or more by volume. Ensure thorough coverage of plant material. <b>SEE LABEL</b> |
|  | Entrust           | 62719-282-AA (SLN)                                 | Ornamentals                         | Apply at maximum label rate of 68 ml/100 gallons water )2.3 fl.oz/100 gallons water) with approved superior-type spray oil at a rate of 1% or more by volume. Ensure thorough coverage of plant material. <b>SEE LABEL</b>  |
| <b>* An approved petroleum based paraffinic spray oil must be used to be considered an approved treatment for eggs/larvae. Approved oils can be found on page 3.</b> |                   |  |                                     |   |

| Target Life Stage: Adults |                   |           |       |                                       |
|---------------------------|-------------------|-----------|-------|---------------------------------------|
| Active Ingredient         | Approved Products | EPA Reg # | Sites | Approved Quarantine Rates and Remarks |
| Currently none            |                   |           |       |                                       |

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| Target Life Stage: Larvae                     |                   |                    |                             |   |
|---|-------------------|--------------------|-----------------------------|---|
| Active Ingredient                             | Approved Products | EPA Reg #          | Sites                       | Approved Quarantine Rates and Remarks   |
| <b>BT (<i>Bacillus thuringiensis</i>)</b>     | Dipel Pro DF      | 73049-39-ZA        | Ornamental and Crops        | Two treatments required. Apply at maximum label rate. Treatments must <b><i>not</i></b> be after 12:00 p.m., unless under shade-cloth, to minimize UV exposure. Treated plants must be held and safeguarded for 10 days after first treatment. Re-apply 7 to 10 days after application of first treatment. Re-inspection cannot occur prior to end of 10 day holding period. <b>SEE LABEL</b> |
|   | Dipel DF          | 73049-39-AA        | Crops                       |   |
| <b>Lambda-cyhalothrin</b>                     | Scimitar GC       | 100-1088-AA        | Ornamentals                 | Apply at maximum label rate of 148ml/100 gallons water (38 ppm ai by volume). Treated plants must be held and safeguarded for 10 days after treatment. Re-inspection cannot occur prior to end of 10 day holding period. <b>SEE LABEL</b>   |
| <b>Chlorantraniliprole</b>                    | Acelepryn         | 352-731            | Landscape ornamental plants | Apply at rate of 2.0 fl.oz per 100 gallons water. Treated plants must be held and safeguarded for 10 days after treatment. Re-inspection cannot occur prior to end of 10 day holding period. <b>SEE LABEL</b>   |
| <b>Spinosad</b><br>(including spinosyn A & D) | Conserve SC       | 62719-291-AA (SLN) | Ornamentals                 | Apply at maximum label rate of 650 ml/100 gallons water (22 fl.oz/100 gallons water). Treated platns must be held and safeguarded for 10 days after treatment. Re-inspection cannot occur prior to end of 10 day holding period. <b>SEE LABEL</b>   |
|   | Entrust           | 62719-282-AA (SLN) | Ornamentals                 | Apply at maximum label rate of 68 ml/100 gallons water (22 fl.oz/100 gallons water). Treated platns must be held and safeguarded for 10 days after treatment. Re-inspection cannot occur prior to end of 10 day holding period. <b>SEE LABEL</b>  |

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**Approved petroleum based paraffinic spray oils must be in formulations of 97% or > oil concentration, with a spray concentration of 1% volume/volume oil in a tank mix with the other approved pesticide.** Petroleum based paraffinic spray oils include narrow range horticultural mineral spray oils, superior-type spray oils, supreme oils, horticultural mineral oils, dormant spray oils, or petroleum derived spray oils. *Using a petroleum based paraffinic spray oil to target eggs is not an approved quarantine treatment when used alone.*

| Active Ingredient   | Approved Product  | EPA Reg # | Sites                 | Approved Quarantine Rates and Remarks   |
|---|---|-----------|-----------------------|---|
| <b>Petroleum based paraffinic spray oil</b> <ul style="list-style-type: none"> <li>• Equivalent to 97% petroleum oil</li> <li>• 60% or greater paraffinic fractions</li> <li>• 92% or greater unsulfonated residues</li> <li>• Spray concentration of 1% volume/volume oil in a tank mix with the other approved pesticide</li> <li>• <b>An approved larvacide must be used to be considered an approved treatment for eggs/larvae. Approved larvacides are listed in the chart above, titled “Target Life Stage: Eggs*/Larvae.”</b></li> <li>• Using a petroleum based paraffinic spray oil to target eggs is not an approved quarantine treatment when used alone.</li> </ul> | Bonide All Seasons Commercial Horticultural and Dormant Spray Oil     | 4-80-AA   | Ornamentals and Crops | Apply at label rate. Ensure thorough coverage of plant material. <b>SEE LABEL</b>         |
|   | Any mineral oil targetting LBAM with 97% or greater oil concentration | N/A       | Ornamentals and Crops | Apply according to label rate and directions. Ensure thorough coverage of plant material. |